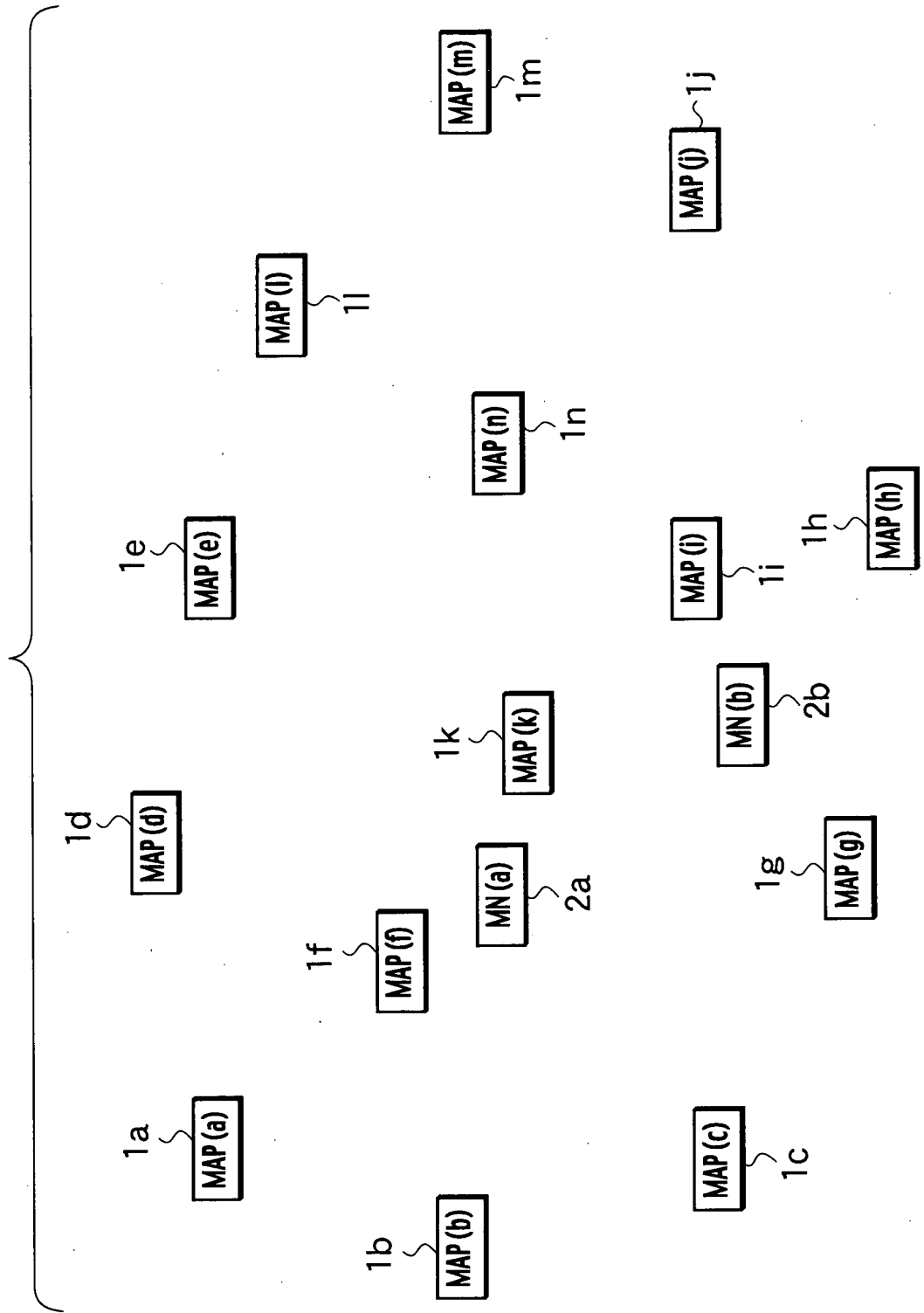
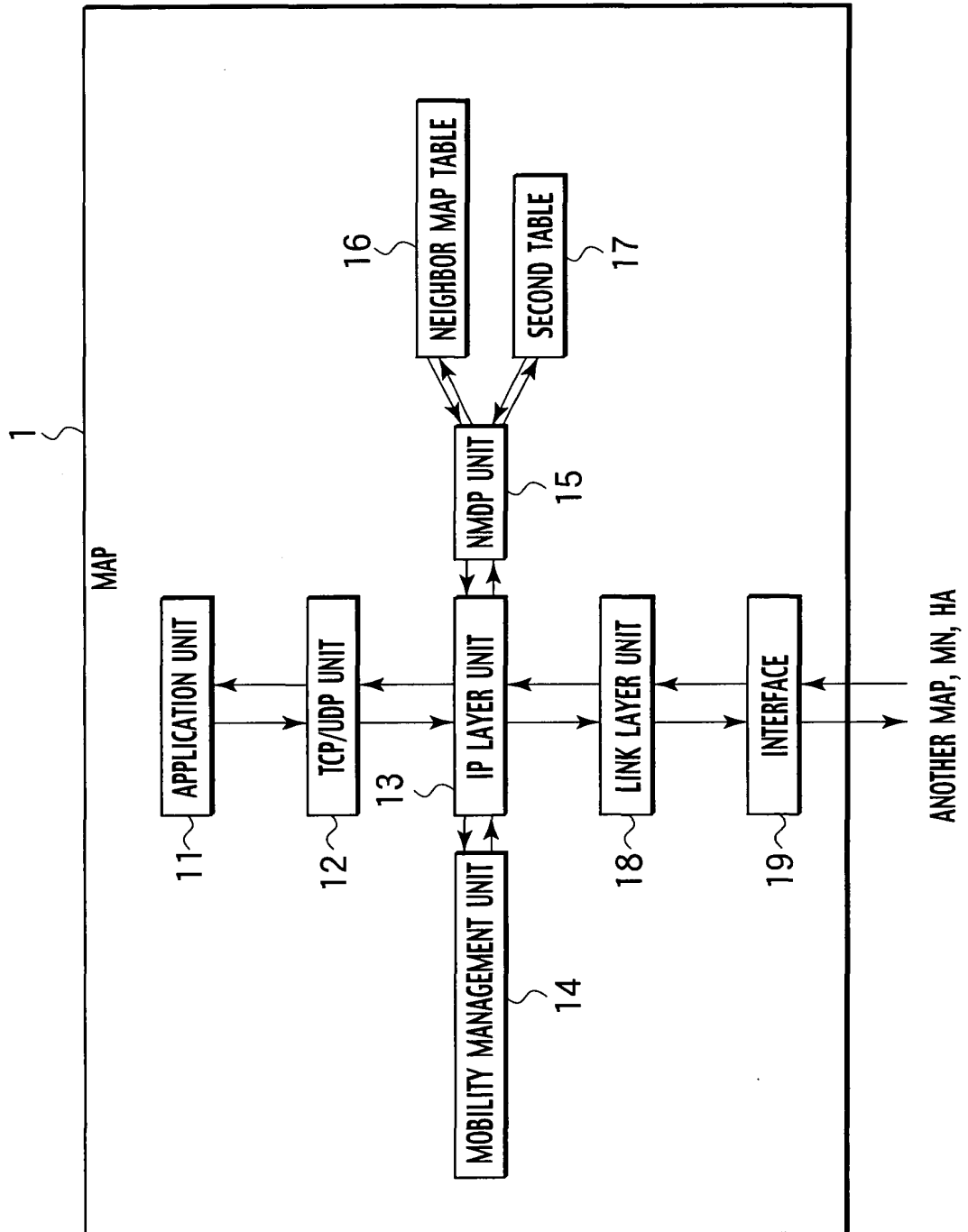


FIG. 1



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FIG. 2



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FIG. 3

MAP (k)

NEIGHBOR MAP TABLE 16k

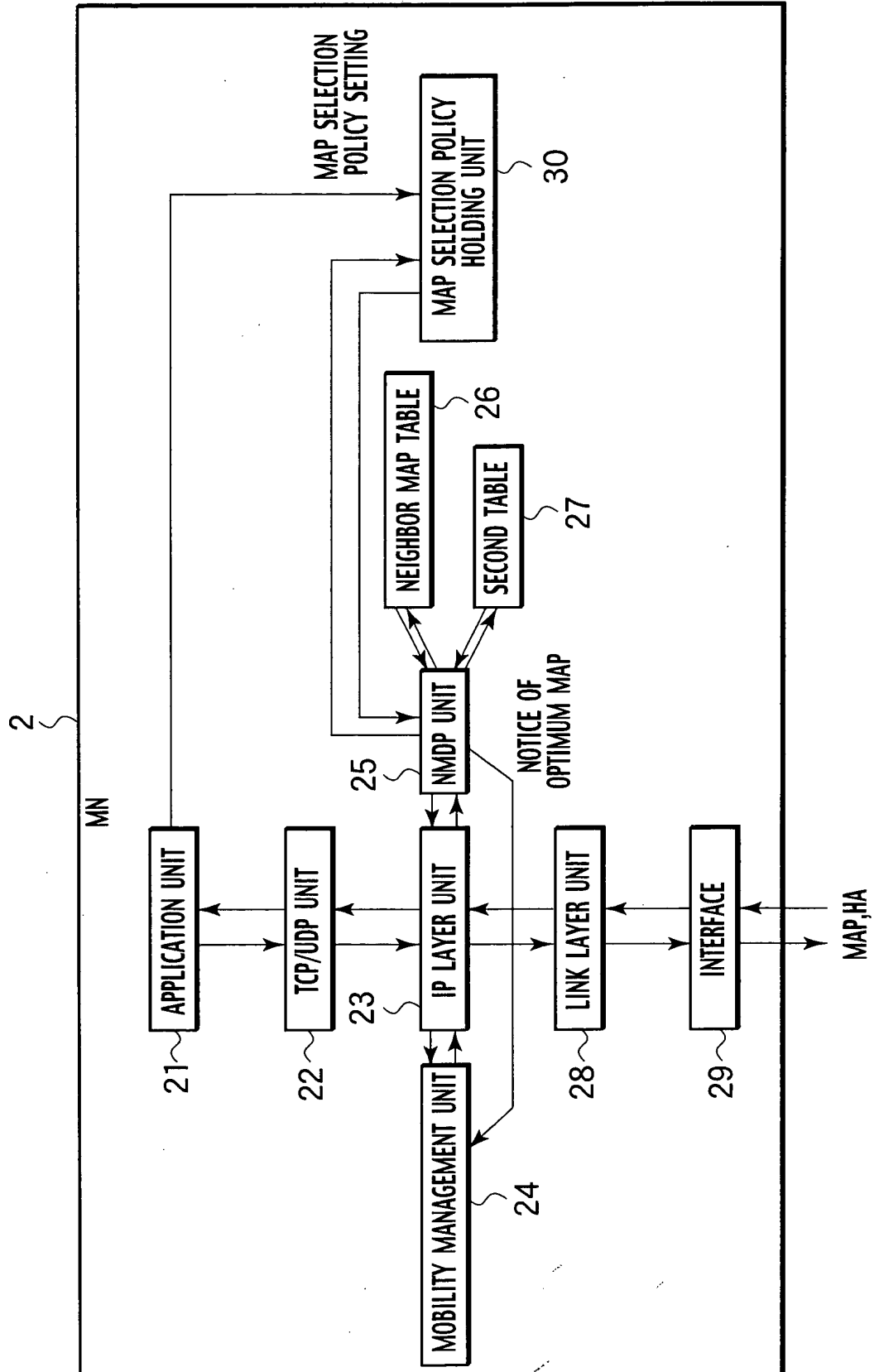
IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	10 (MEDIUM)	635	1653	0	
f	6.5	11 (LOW)	433	1652	2944	623
i	6.8	01 (HIGH)	122	1650	0	
n	7.3	10 (MEDIUM)	61	1649	0	
g	13.0	00 (HIGHEST)	122	1650	0	

SECOND TABLE 17k

SEQUENCE NUMBER 3	1653
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1163
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	111.5265
SMOOTHING FACTOR α	0.5

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FIG. 4



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FIG. 5

MN(a)

NEIGHBOR MAP TABLE 26a

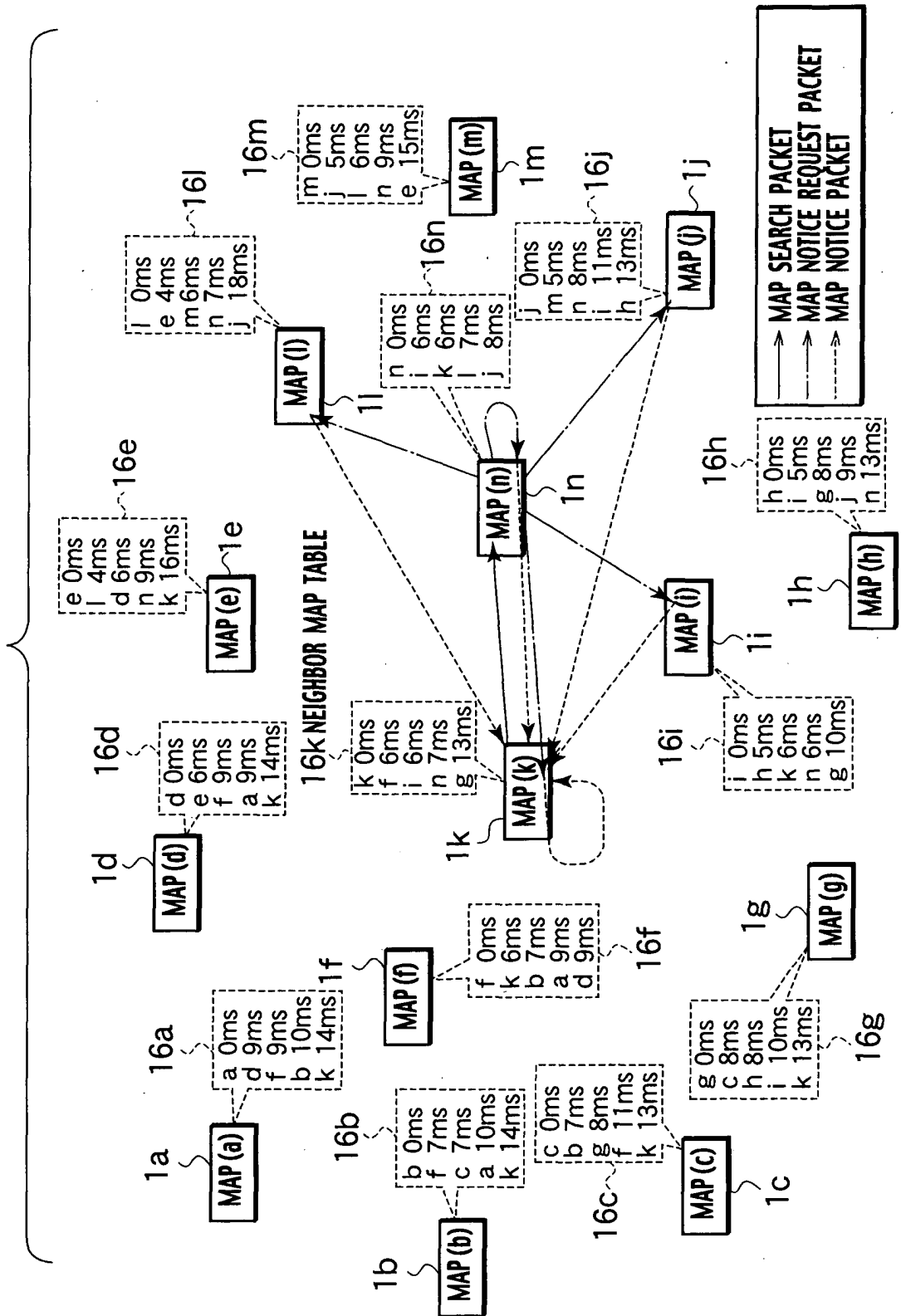
IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1
f	2.3	10 (MEDIUM)	22	666
k	3.3	10 (MEDIUM)	22	666
b	4.1	01 (HIGH)	30	667
a	5.9	00 (HIGHEST)	18	663
d	9.9	11 (LOW)	18	663

SECOND TABLE 27a

SEQUENCE NUMBER 3	667
INITIAL LIFETIME (sec.)	30
SEARCH LIFETIME (sec.)	15
TIMER (sec.)	52.0121
SMOOTHING FACTOR β .	0

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FIG. 6



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FIG. 7

MAP SEARCH PACKET 3

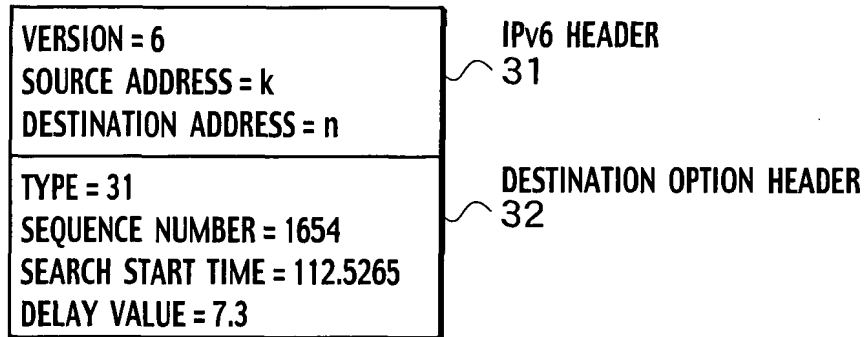


FIG. 8A

MAP NOTICE REQUEST PACKET 4i

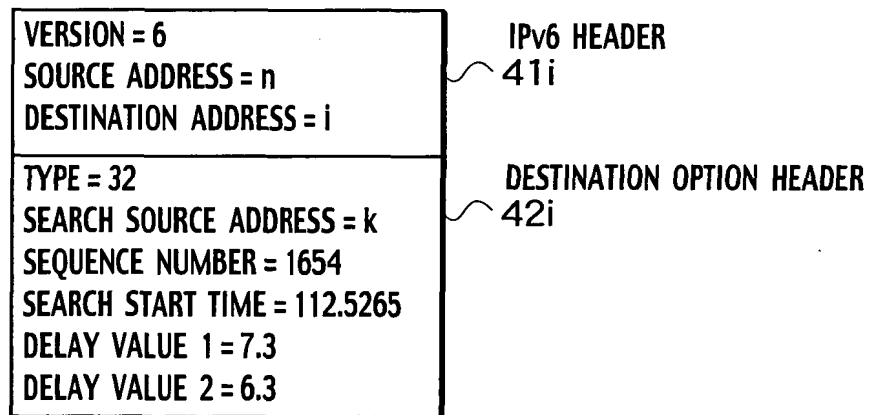
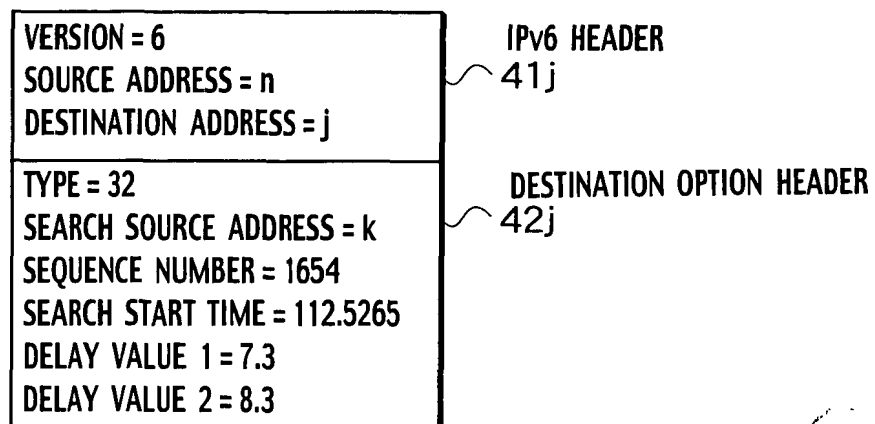


FIG. 8B

MAP NOTICE REQUEST PACKET 4j



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FIG. 9A

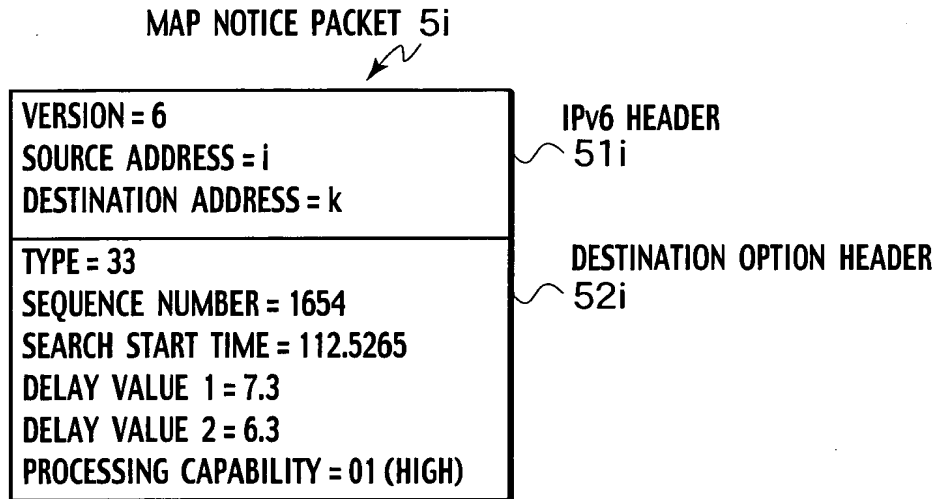
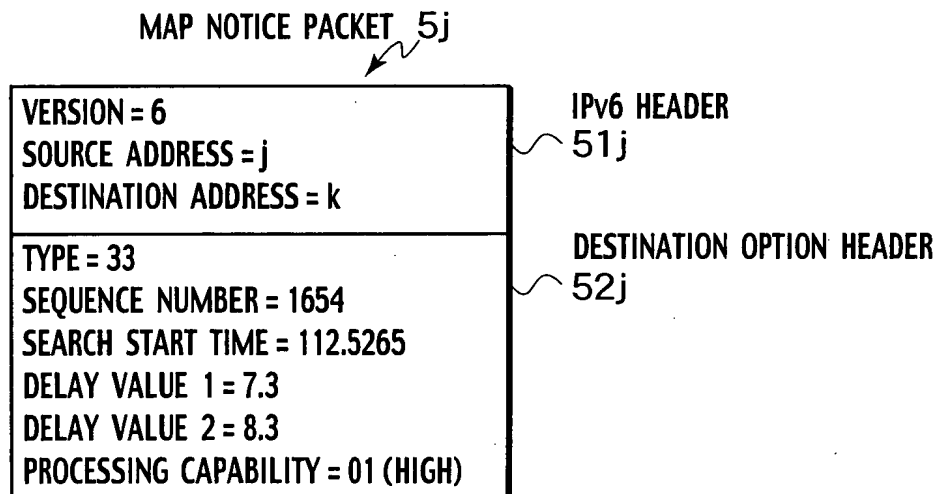


FIG. 9B



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FIG. 10

MAP (k)

NEIGHBOR MAP TABLE 16k

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	10 (MEDIUM)	900	1654	0	
f	6.5	11 (LOW)	432	1652	2943	623
i	6.8	01 (HIGH)	122	1650	0	
n	7.2	11 (LOW)	900	1654	0	
g	13.0	00 (HIGHEST)	121	1650	0	

SECOND TABLE 17k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	112.5465
SMOOTHING FACTOR α	0.5

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FIG. 11

MAP (k)

NEIGHBOR MAP TABLE 16k

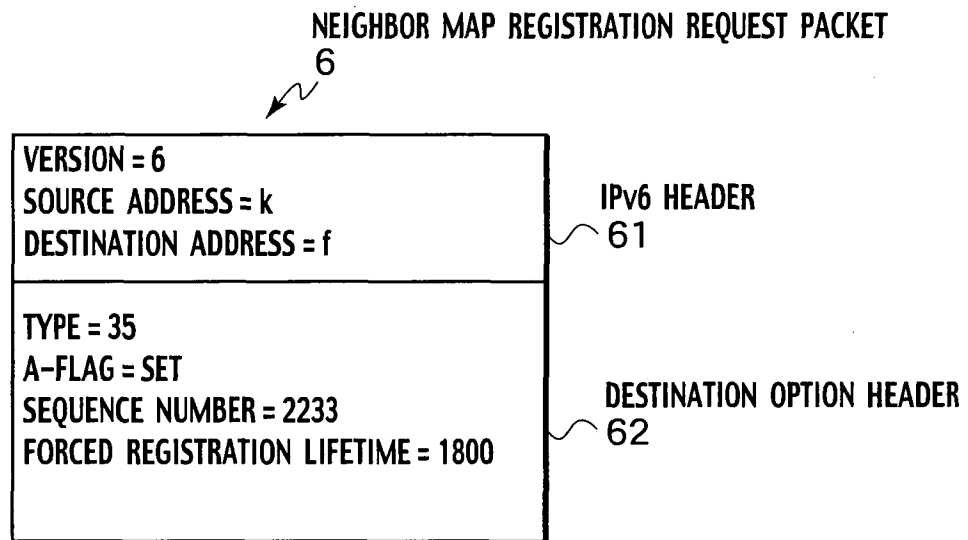
IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	10 (MEDIUM)	900	1654	0	
f	6.5	11 (LOW)	432	1652	2943	623
i	6.6	01 (HIGH)	900	1654	0	
n	7.2	11 (LOW)	900	1654	0	
g	13.0	00 (HIGHEST)	121	1650	0	

SECOND TABLE 17k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	112.5554
SMOOTHING FACTOR α	0.5

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FIG. 12



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FIG. 13

MAP (f)

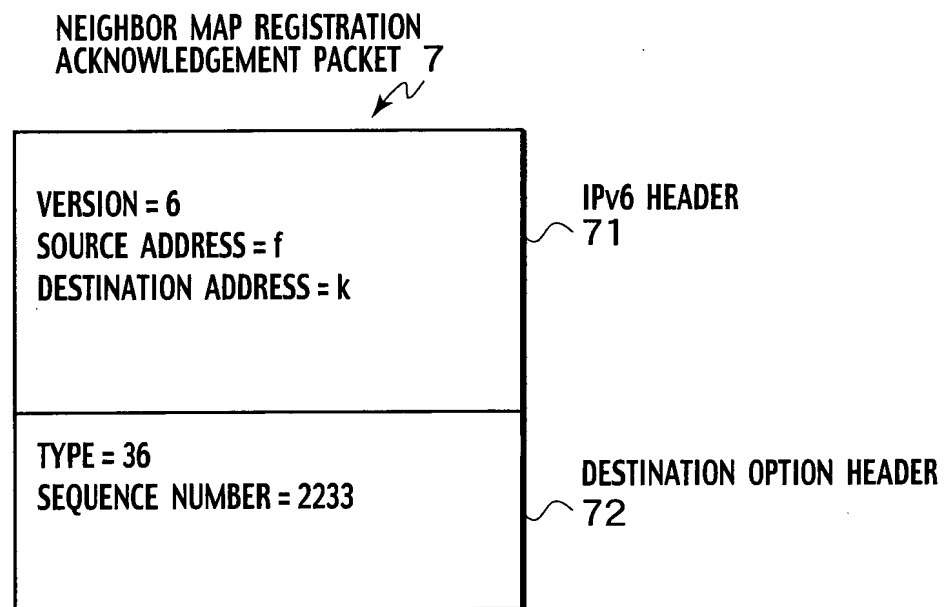
NEIGHBOR MAP TABLE 16f

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
f	0	10 (MEDIUM)	899	22333	0	
k	6.0	10 (MEDIUM)	150	22330	1800	2233
b	7.6	01 (HIGH)	226	22328	0	
a	9.2	00 (HIGHEST)	900	22333	0	
d	9.4	11 (LOW)	900	22333	0	

SECOND TABLE 17f

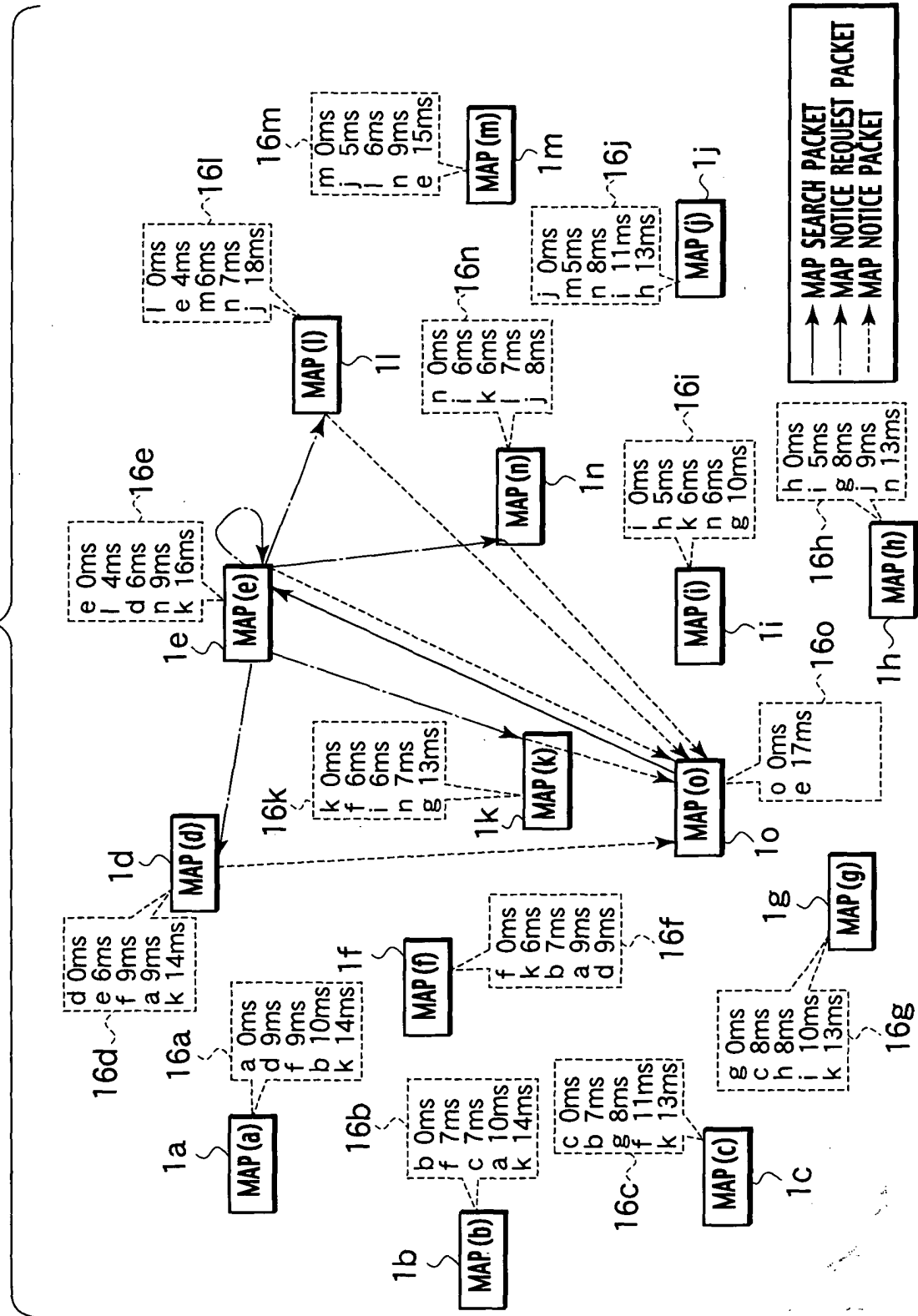
SEQUENCE NUMBER 3	22333
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	623
FORCED REGISTRATION INITIAL LIFETIME (sec.)	3600
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	3000
PROCESSING CAPABILITY	11 (LOW)
TIMER (sec.)	52.0121
SMOOTHING FACTOR α	0.5

FIG. 14



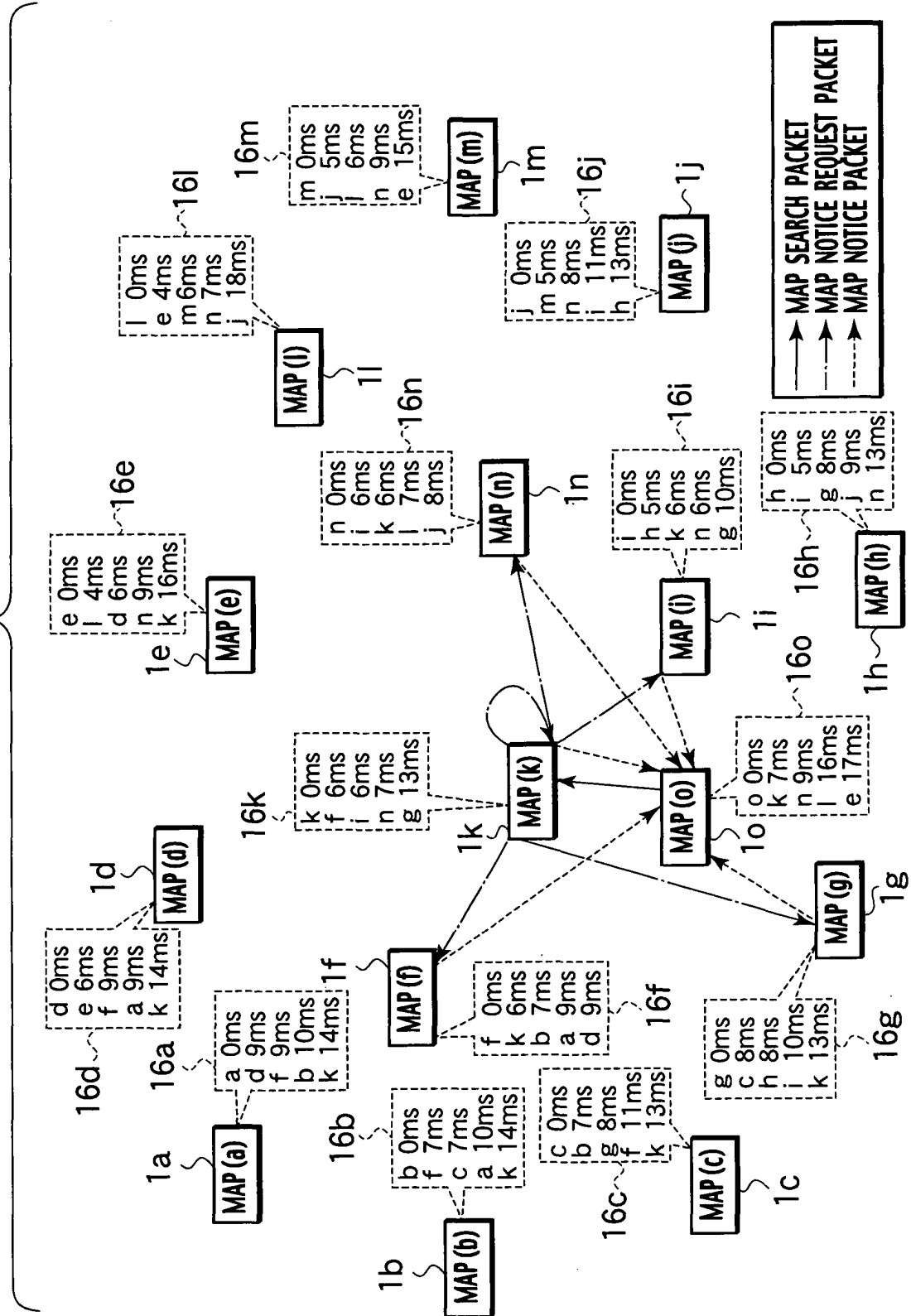
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FIG. 15



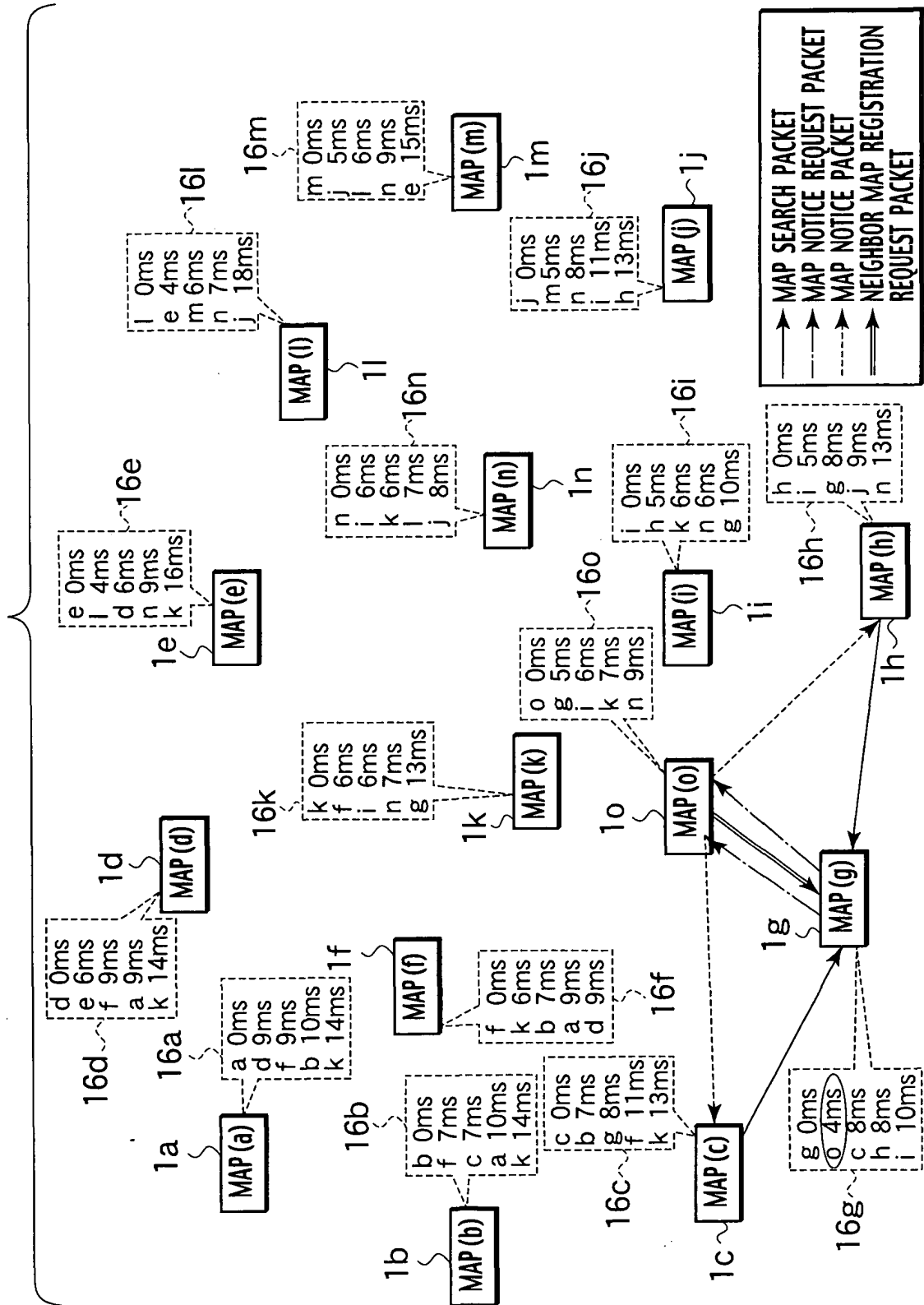
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FIG. 16



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FIG. 17



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FIG. 18

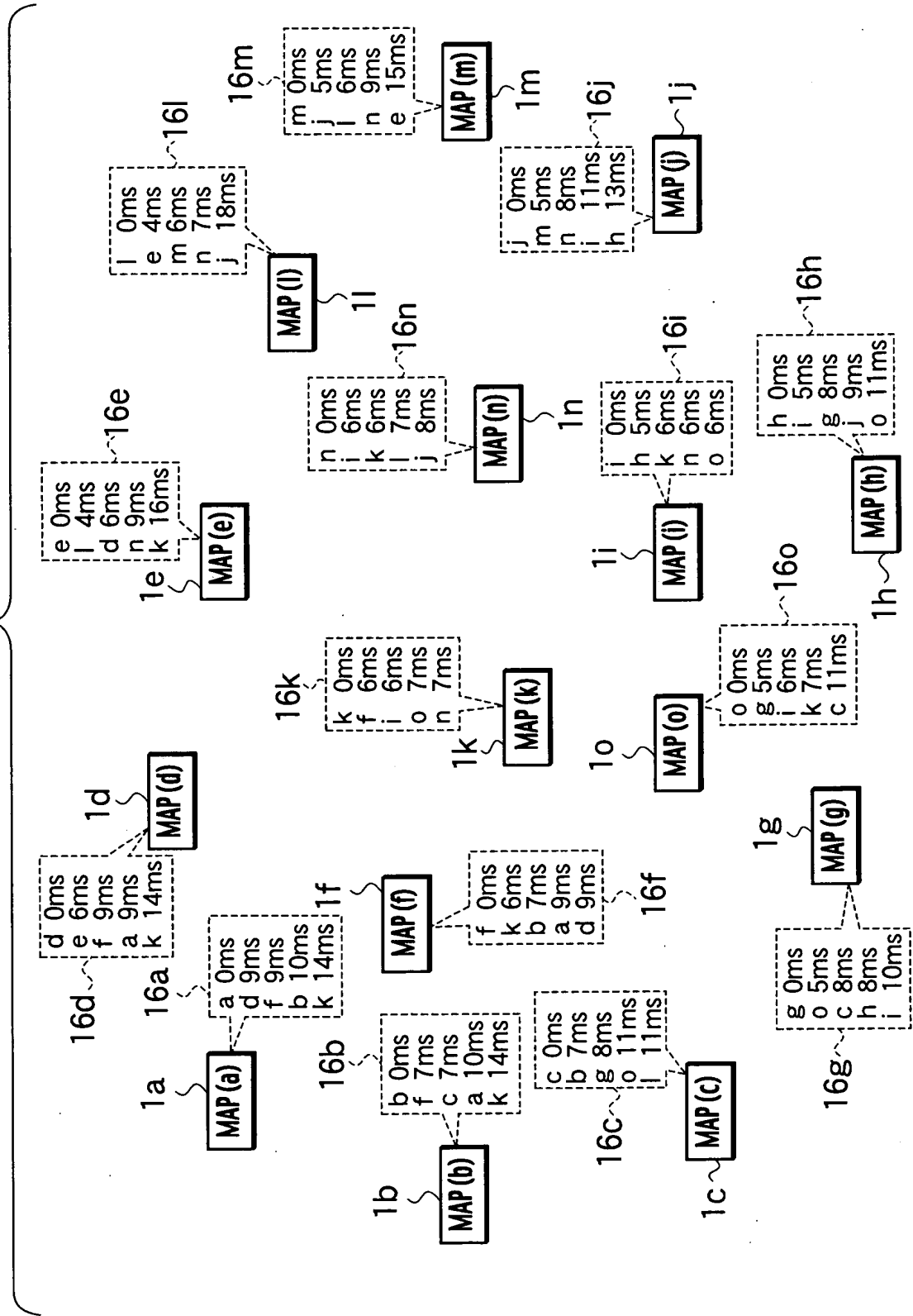
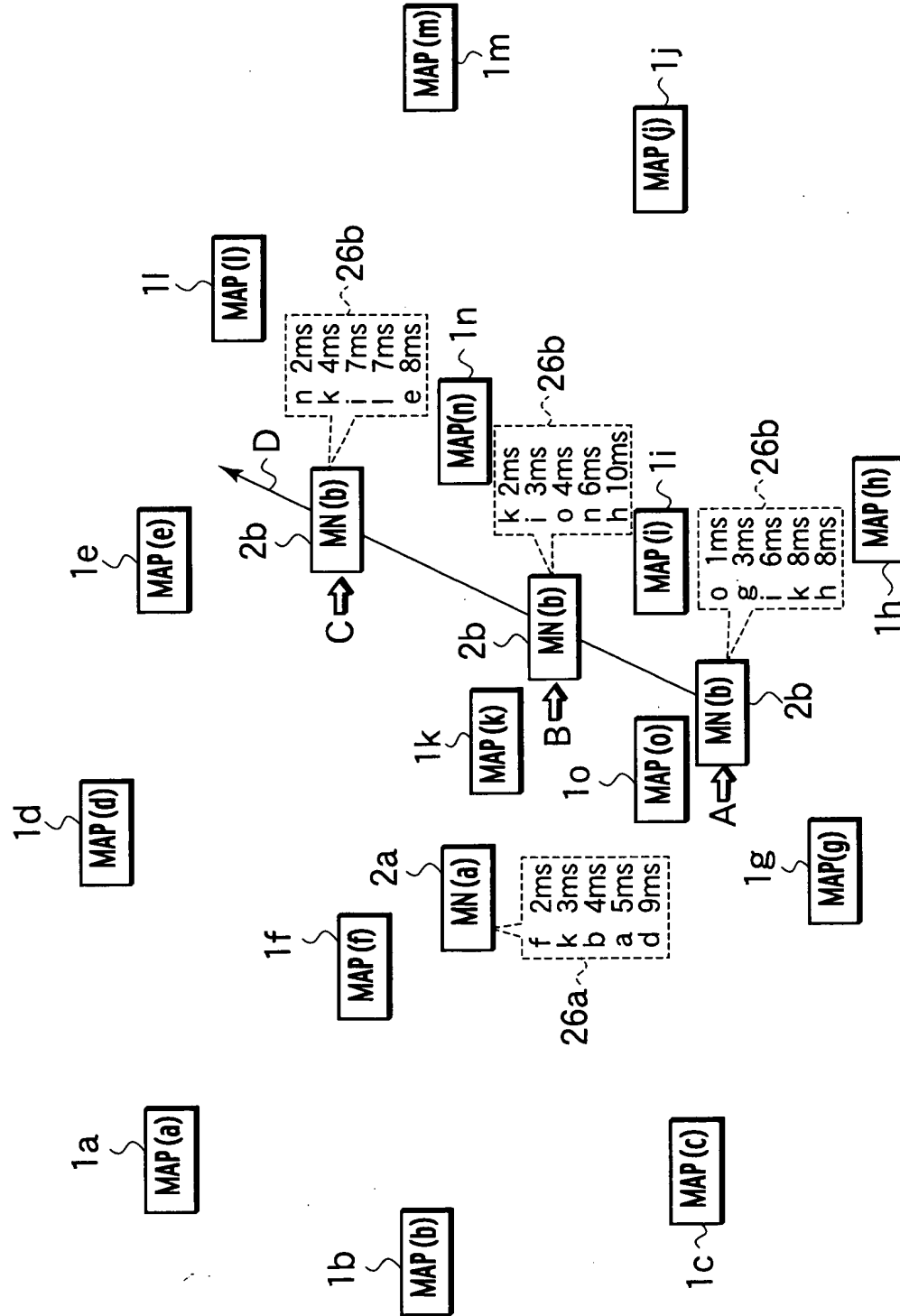


FIG. 19



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FIG. 20

MAP (k)

NEIGHBOR MAP TABLE 116k

IP ADDRESS	NUMBER OF HOPS	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	635	1653	0	
f	6	433	1652	2944	623
i	6	122	1650	0	
n	7	61	1649	0	
g	13	121	1650	0	

SECOND TABLE 117k

SEQUENCE NUMBER 3	1653
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1163
INITIAL HL	13

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FIG. 21

MN (a)

NEIGHBOR MAP TABLE 126a

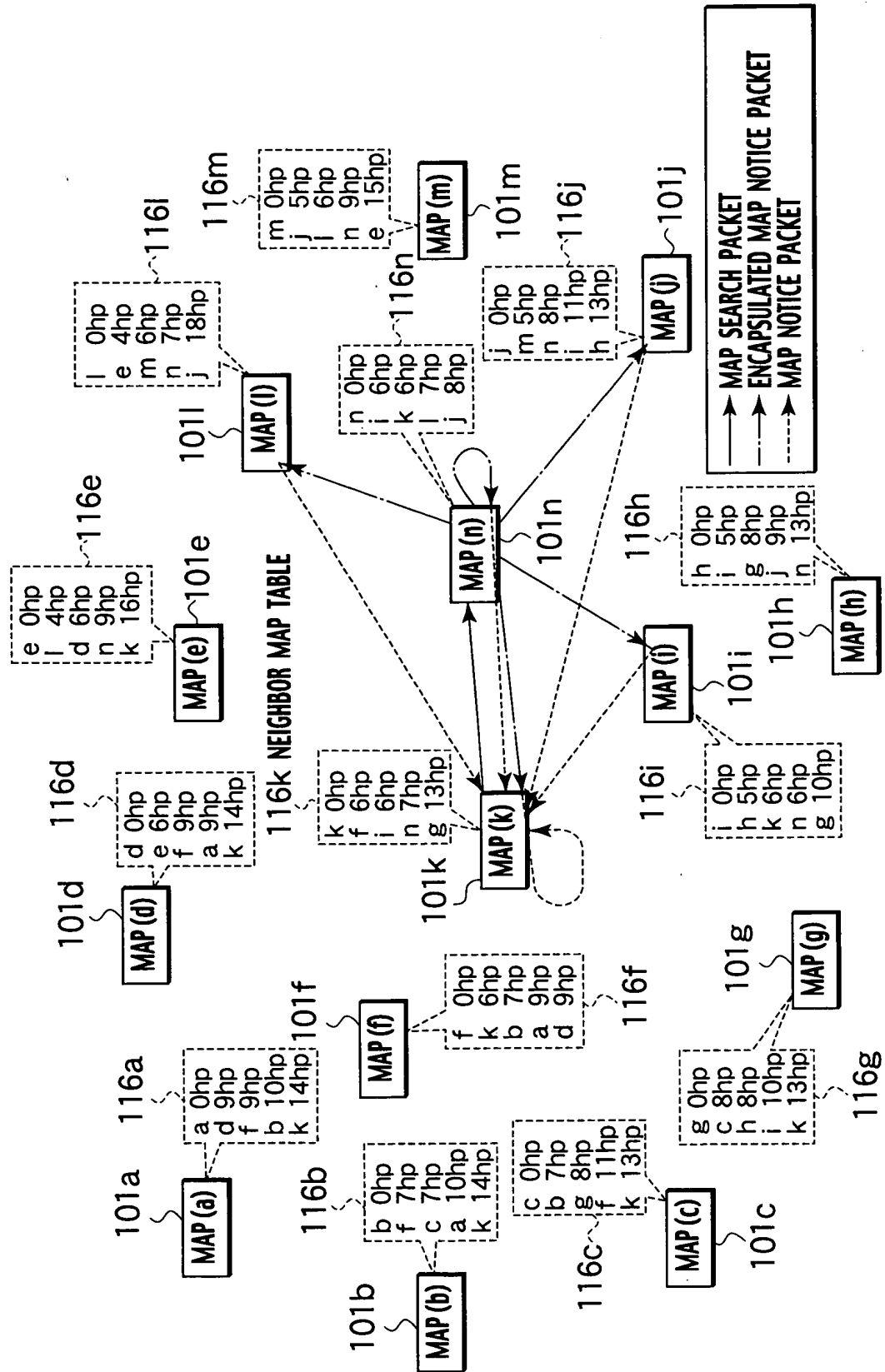
IP ADDRESS	NUMBER OF HOPS	LIFETIME (sec.)	SEQUENCE NUMBER 1
f	2	22	666
k	3	22	666
b	4	30	667
a	6	18	663
d	10	18	663

SECOND TABLE 127a

SEQUENCE NUMBER 3	667
INITIAL LIFETIME (sec.)	30
SEARCH LIFETIME (sec.)	15
INITIAL HL	255

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FIG. 22



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FIG. 23

MAP SEARCH PACKET 103

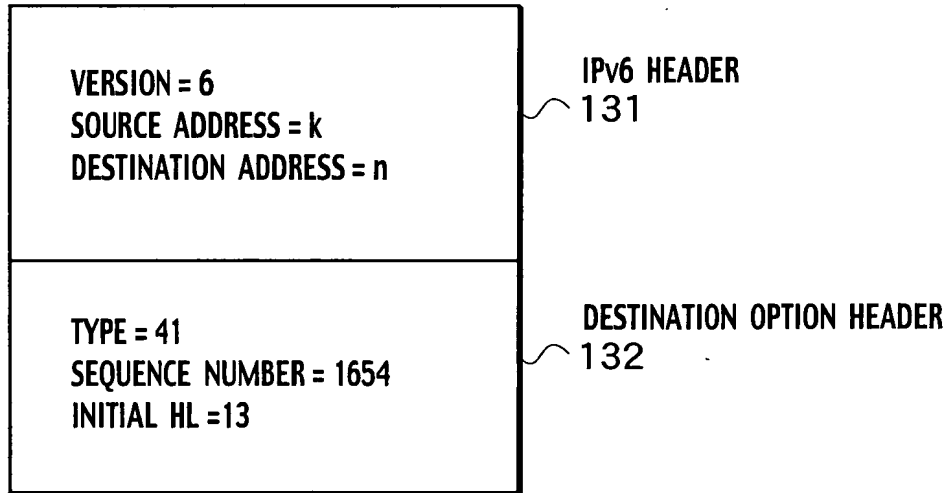


FIG. 24A

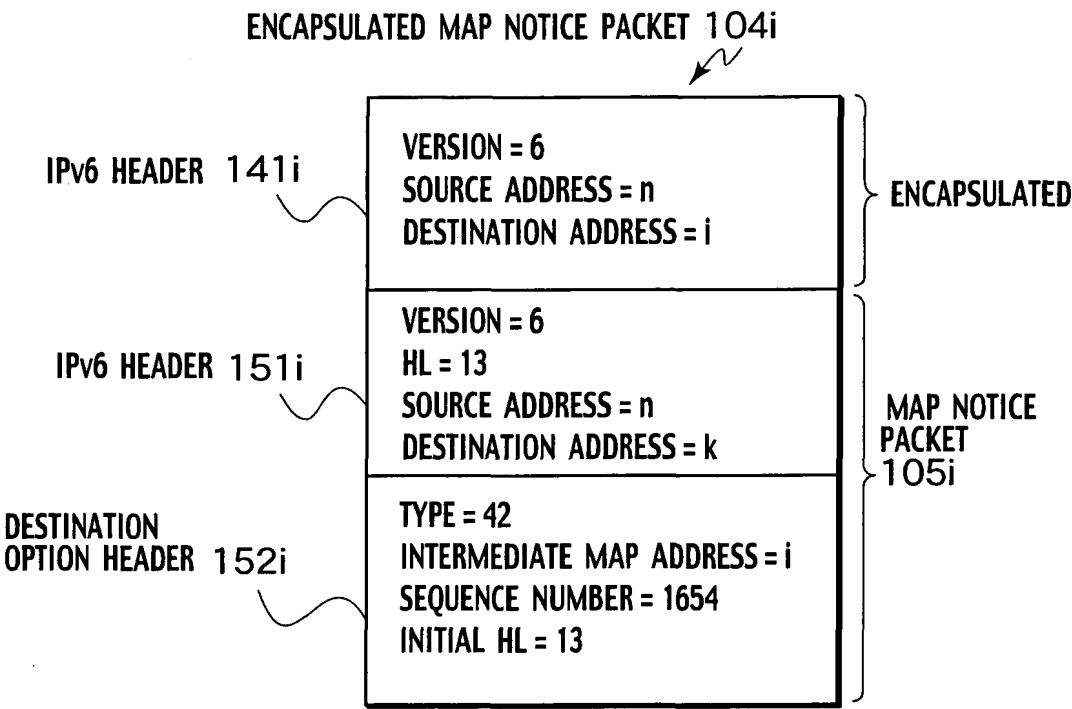
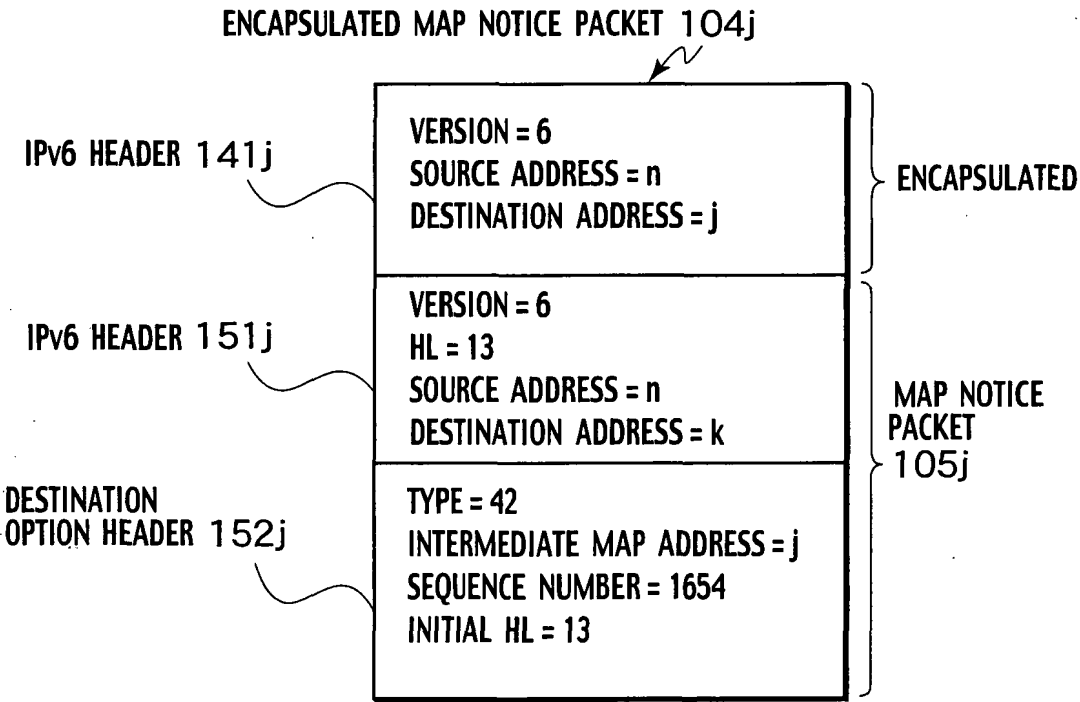


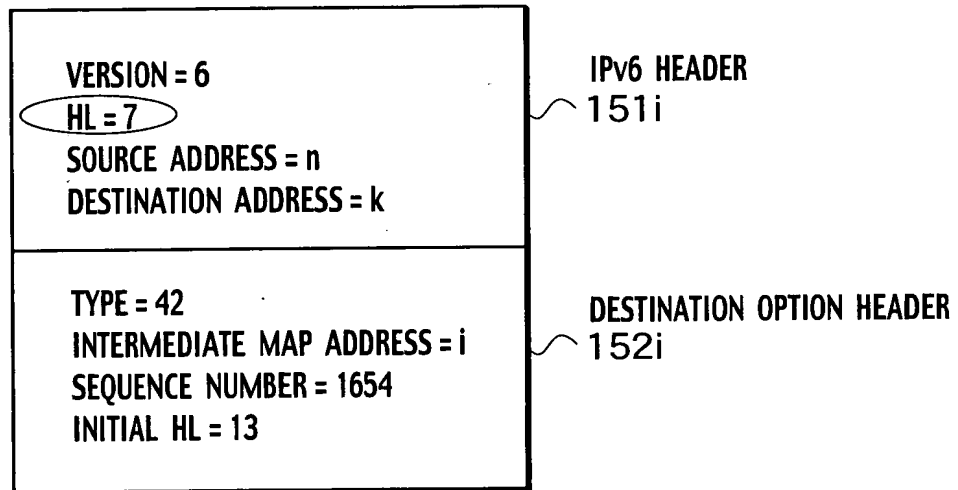
FIG. 24B



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FIG. 25

MAP NOTICE PACKET 105i



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FIG. 26

MAP (k)

NEIGHBOR MAP TABLE 116k

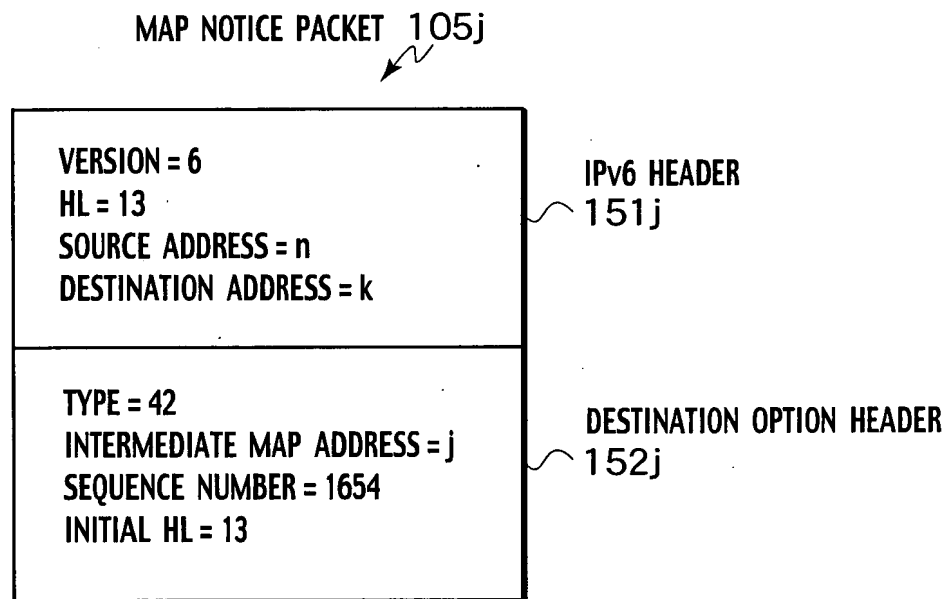
IP ADDRESS	NUMBER OF HOPS	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATI ON LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	900	1654	0	
f	6	432	1652	2943	623
i	6	122	1650	0	
n	7	900	1654	0	
g	13	121	1650	0	

SECOND TABLE 117k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
INITIAL HL	13

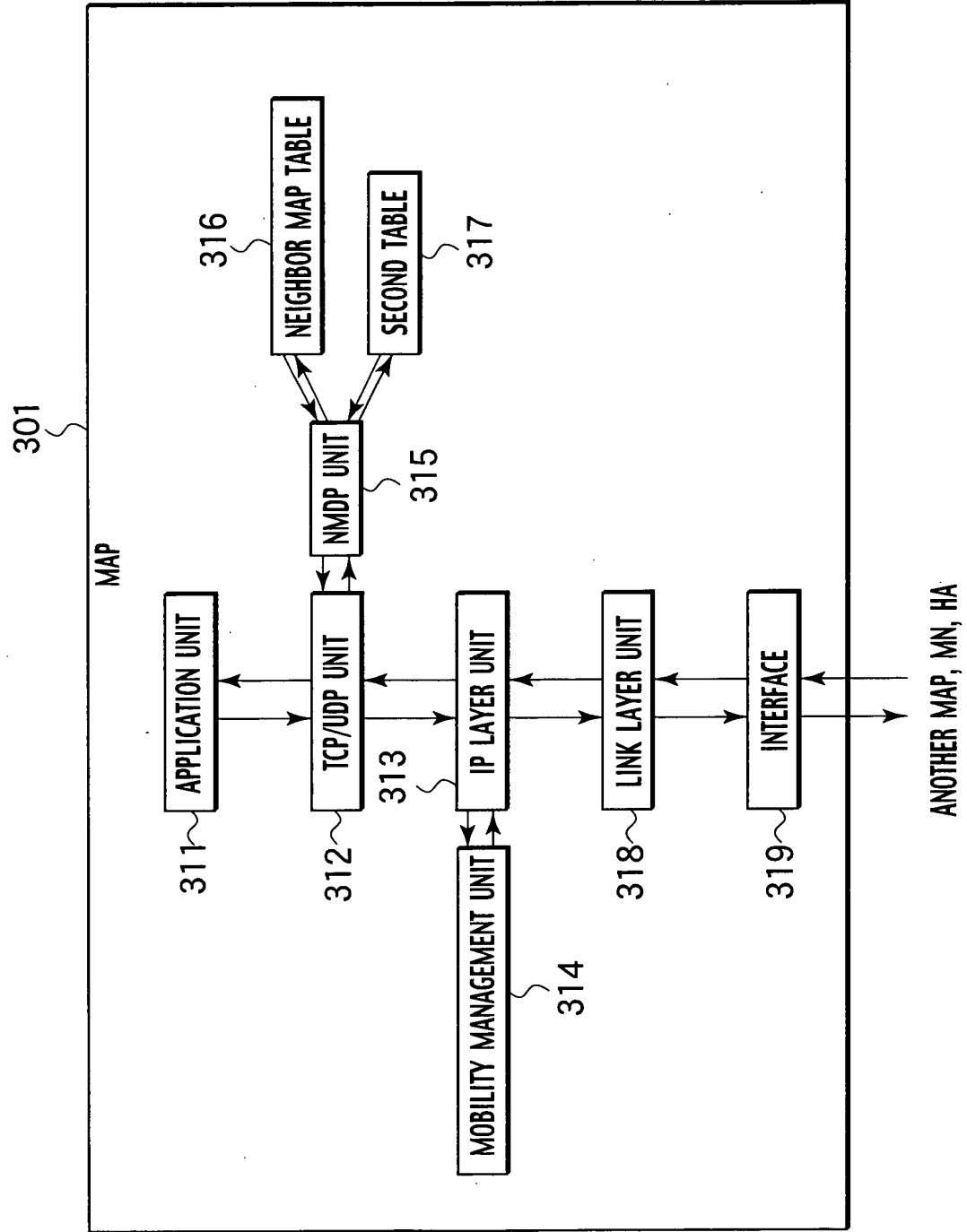
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FIG. 27



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FIG.29



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FIG.30

